Manufacturer: Growatt New Energy Co., Ltd

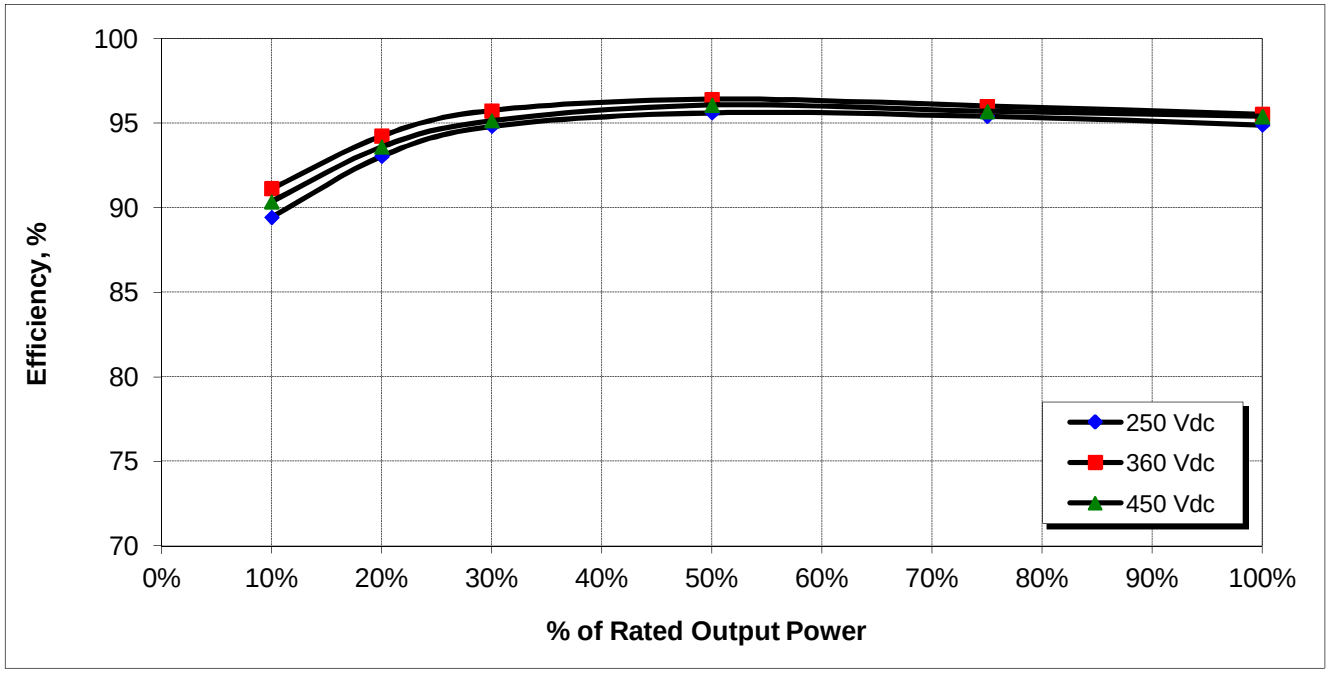
Model #: GROWATT 3000HF-US (240 Vac)

Rated Maximum Continuous Output Power: 3.00 kW Night Tare Loss: 0.14 W

Vmin: 250 Vdc Vnom: 360 Vdc Vmax: 450 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.30	0.60	0.90	1.50	2.25	3.00	Wtd
Vmin	250	89.4	93.1	94.8	95.6	95.4	94.9	95.0
Vnom	360	91.1	94.2	95.7	96.4	96.0	95.5	95.8
Vmax	450	90.4	93.6	95.2	96.1	95.7	95.4	95.4

CEC Efficiency = 95.5%



Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	0.283	244.67	89.310	0.282	244.43	89.822	0.273	241.16	88.830	0.285	244.69	89.456	0.284	238.74	89.753
20%	Vmin	0.5753	245.35	93.009	0.593	250.3	93.088	0.587	250	93.096	0.575	245.27	92.996	0.588	250.44	93.122
30%	Vmin	0.8992	251.91	94.907	0.896	248.4	94.808	0.905	251.04	94.796	0.898	249.82	94.848	0.897	253.18	94.804
50%	Vmin	1.4967	250.23	95.661	1.497	250.88	95.616	1.5	249.83	95.666	1.504	250.93	95.632	1.495	249.38	95.578
75%	Vmin	2.0721	247.77	95.358	2.066	250.58	95.441	2.081	249	95.403	2.038	249.89	95.458	2.044	250.15	95.441
100%	Vmin	2.9616	248.3	94.936	2.913	249.95	94.937	2.948	250	94.826	2.957	250.73	94.975	2.953	250.85	94.848
10%	Vnom	0.2872	360.45	91.134	0.284	356.99	91.080	0.287	361.12	91.179	0.288	361.34	91.128	0.287	359.65	91.151
20%	Vnom	0.6038	358.81	94.324	0.601	359.06	94.303	0.6	357.81	94.240	0.586	360.92	94.064	0.605	360.4	94.281
30%	Vnom	0.9041	359.98	95.775	0.898	357.42	95.840	0.896	357.4	95.714	0.891	355.07	95.720	0.873	348.48	95.673
50%	Vnom	1.5061	359.98	96.423	1.5	357.42	96.465	1.498	357.4	96.389	1.493	355.07	96.395	1.475	348.48	96.375
75%	Vnom	2.2564	359.42	95.967	2.263	358.62	96.043	2.238	359.72	95.992	2.23	358.84	96.033	2.232	360.28	96.037
100%	Vnom	2.9812	358.1	95.537	2.976	355.3	95.608	2.983	357.87	95.511	2.956	357.1	95.508	2.984	358.45	95.483
10%	Vmax	0.2852	453.35	90.425	0.286	452.97	90.356	0.285	452.76	90.369	0.289	453.11	90.418	0.282	451.04	90.283
20%	Vmax	0.6194	450.37	93.413	0.608	449.05	93.632	0.625	450.43	93.675	0.618	451.27	93.294	0.624	449.78	94.009
30%	Vmax	0.883	451.63	94.950	0.907	451.53	95.165	0.909	452	95.133	0.898	453.42	95.121	0.906	452.91	95.396
50%	Vmax	1.5073	461.76	96.163	1.516	460.12	95.961	1.514	460.6	95.935	1.518	460.16	96.156	1.525	460.55	96.145
75%	Vmax	2.2259	463.53	95.625	2.254	464.5	95.684	2.249	463.8	95.819	2.228	465.21	95.774	2.24	465.48	95.610
100%	Vmax	2.9068	464.16	95.368	2.926	463.01	95.443	2.933	462.56	95.401	2.929	463.91	95.374	2.932	464.82	95.461

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															